



# Greenman-Pedersen, Inc. - Vermont

## Change Order Details

HARTFORD STP 0113(59)S & Hartford STP EH09(15)

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<b>Description</b>	Work to be performed under this contract includes the construction of two roundabouts and approaches, removal and replacement of curb, new drainage, traffic signs, pavement markings, landscaping, and incidental items at the intersections of U.S. Route 5/ Sykes Mountain Avenue/Ralph Lehman Drive, and new sidewalk from the Post office to Lilly Pond Road.
<b>Prime Contractor</b>	B.U.R. CONSTRUCTION, LLC 940 John Stark Highway Newport, NH 03773
<b>Change Order</b>	3
<b>Status</b>	Pending
<b>Date Created</b>	08/03/2020
<b>Type</b>	Change in Design
<b>Summary</b>	Guardrail
<b>Change Order Description</b>	<p><b>TO: BUR Construction;</b> you are hereby notified to perform the following work in accordance with the Provisions of your Contract with the Town of Hartford, Vermont dated <u>04/22/2020</u> and as modified by this document and in accordance with the Vermont Agency of Transportation 2018 Standard Specifications for Highway and Bridge Construction and Supplements thereto.</p> <p><b>Revision:</b> To add the item 621.205 STEEL BEAM GUARDRAIL, GALVANIZED, W/8 FEET POSTS and to reduce the contract item 621.20 STEEL BEAM GUARDRAIL, GALVANIZED.</p> <p><b>Necessity for Revision:</b> In the "Layout Plan 5" Detail Sheets (30 of 104), the plans call for steel beam guardrail to be installed from STA 22+75.0 to STA 26+85. However, at this location there is an existing underground duct bank that will not allow the guardrail to be placed as shown on the plans. Therefore, the guardrail will be placed on the back side of the duct bank, and at the top of the slope. Due to the slope from STA 22+75 to STA 25+25 8ft post are required to meet the guardrail design requirements.</p> <p>As such, the item 621.205 STEEL BEAM GUARDRAIL, GALVANIZED, W/8 FEET POSTS is being added to the contract and the item 621.20</p>

STEEL BEAM GUARDRAIL, GALVANIZED is being reduced accordingly. The work identified above shall be conducted in accordance with the applicable plans and specifications

**By signing this Change Order, the contractor accepts this agreement as final, and accepts the pricing as full compensation for the work, including but not limited to all labor, materials, equipment and incidentals necessary to complete the work.**

Verbal approval from, Hannah Tyler, Director of Public Works, on 09/16/2020 .

Verbal approval from, Scott Robertson, VTrans Municipal Assistance Bureau, on 09/16/2020 .

**New Items not in Contract:** Item 621.205 STEEL BEAM GUARDRAIL, GALVANIZED, W/8 FEET POSTS at Twenty Six Dollars and Twenty Five Cents (\$26.25) per Linear Foot (LF)

**Items to be removed from the Contract:**N/A

<b>Awarded Project Amount</b>	\$6,529,016.05
<b>Authorized Project Amount</b>	\$6,579,396.83
<b>Change Order Amount</b>	\$2,340.00
<b>Revised Project Amount</b>	\$6,581,736.83

**Increases/Decreases**

Item Number	Description	Unit	Unit Price	Current		Change		Revised	
				Quantity	Amount	Quantity	Amount	Quantity	Amount
<b>Section: 1011 - Roadway - STP 0113(59)S</b>									
0870	621.20	LF	\$18.450	420.000	\$7,749.00	-300.000	-\$5,535.00	120.000	\$2,214.00
STEEL BEAM GUARDRAIL, GALVANIZED:									

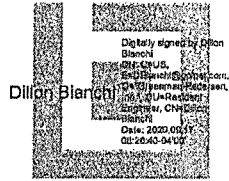
Item Number	Item ID	Unit	Unit Price	Quantity	Amount	Change	Quantity	Amount	Quantity	Amount
<b>Funding Details</b>										
	Non-Participating STP 0113(59)S			0.000	\$0.00		0.000	\$0.00	0.000	\$0.00
	Non-Participating(Mascoma) - STP EH09(15)			0.000	\$0.00		0.000	\$0.00	0.000	\$0.00
	Non-Participating(Toyota) - STP EH09(15)			0.000	\$0.00		0.000	\$0.00	0.000	\$0.00
	Participating - STP 0113(59)S			420.000	\$7,749.00	-300.000		-\$5,535.00	120.000	\$2,214.00
	Participating - STP EH09(15)			0.000	\$0.00		0.000	\$0.00	0.000	\$0.00
<b>Item</b>	<b>Totals</b>				<b>\$7,749.00</b>			<b>-\$5,535.00</b>		<b>\$2,214.00</b>

**New Items**

Item Number	Item ID	Unit	Quantity	Unit Price	Extension
<b>Section: 1011 - Roadway - STP 0113(59)S</b>					
2530	621.205	LF	300.000	\$26.250	\$7,875.00
STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS:					
<b>Funding Details</b>					
	Participating - STP 0113(59)S		300.000	\$26.250	\$7,875.00
<b>Item</b>					<b>Total: \$7,875.00</b>

## Funding Summary

Fund Package	Original Amount	Authorized Amount	Funding Change	Revised Amount
Participating - STP 0113(59)S	\$5,765,247.83	\$5,815,628.61	\$2,340.00	\$5,817,968.61
Non-Participating STP 0113(59)S	\$10,000.00	\$10,000.00	\$0.00	\$10,000.00
Participating - STP EH09(15)	\$583,121.82	\$583,121.82	\$0.00	\$583,121.82
Non-Participating(Toyota) - STP EH09(15)	\$85,419.90	\$85,419.90	\$0.00	\$85,419.90
Non-Participating(Mascoma) - STP EH09(15)	\$85,226.50	\$85,226.50	\$0.00	\$85,226.50
5 fund packages	\$6,529,016.05	\$6,579,396.83	\$2,340.00	\$6,581,736.83



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Dillon Bianchi, Resident Engineer

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Tim St. Pierre, Contractor Representative

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Hannah Tyler, Director of Public Works

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Scott Robertson, VTrans Municipal Assistance Bureau

Town of Hartford  
US Route 5 & Sykes Mountain Ave  
STP 0113 (59) S & STP EH09 (15)



## Cost Analysis

### Executive Summary:

The Item 621.205 Steel Beam Guardrail, Galvanized, W/8 Feet Posts is proposed to be added to the contract. The contractor BUR has submitted the price of \$26.25 per Linear Foot (See Appendix A). GPI conducted a cost analysis of the proposed work to be performed under this item and found BUR's proposed prices to be *higher* than GPI's estimated costs by 37%.

### Overview:

BUR submitted the detail proposal on August 4<sup>th</sup>, 2020. GPI analyzed the contractors proposed prices for the items above by comparing them to the VTrans 5-Year Average Bid History. After conducting this analysis, GPI found the prices to be higher but acceptable due to the proximity of the underground duct bank.

The detailed cost analysis is as follows:

### Analysis:

#### **Item: 621.205 STEEL BEAM GAURDRAIL, GALVANIZED, W/8 FEET POSTS**

Analyze the proposed price for the item listed above using the VTrans 5-Year bid History for this Item.

BUR proposed price = \$26.25 (See Appendix A)

VTrans 5-Year price = \$19.12 (See Appendix B)

Difference in Cost =  $\$26.25 / \$19.12 = 1.37$   
BUR's proposed cost is *higher* than GPI's estimate by 37%

Due to the guardrail's close proximity to the communications duct bank, it will require extra care to ensure protection of the duct bank. This may include locating the duct bank and possible hand digging the posts. While reviewing the subcontractor's price, the price provided by BUR for the guardrail will be higher than typical due to these circumstances. The quantity of the item to be used is limited to 300 LF. GPI finds this cost to be within reason.

# Appendix A



B.U.R. Construction, LLC  
940 John Stark Highway  
Newport NH 03773  
603-287-7125

## Change Order

Order#: 3

Order Date: 08/04/2020

License:

To: Town of Hartford  
171 Bridge Street  
White River Jct VT 05001

Project: 2119  
Hartford Roundabout  
171 Bridge Street  
White River Jct VT 05001

The contractor agrees to perform and the owner agrees to pay for the following changes to this contract.

Plans Attached

Ordered By:

Customer Order:

Specifications Attached

Description of Work	Amount
Deduct Steel Beam Guardrail w/6' Posts	-5,535.00
Addition Steel Beam Guardrail w/8' Posts	7,875.00

### Notes

Negative changes will lower the overall contract price requiring no additional payment by owner.

Requested Amount of Change

2,340.00

The original Contract Sum was .....	6,529,016.05
Net change by previous Change Orders .....	0.00
The Contract Sum prior to this Change Order .....	6,529,016.05
The Contract Sum will be changed by this Change Order .....	2,340.00
The new Contract Sum including this Change Order will be .....	6,531,356.05
The Contract Time will be changed by .....	0 Days

Owner: \_\_\_\_\_

Date: \_\_\_\_\_

Contractor: James Dalvere

Date: 8/5/20

# Lafayette

Highway Specialties

## PROPOSAL

52 Kellogg Road  
Essex Jct., VT 05452  
(802)878-5341 fx(802)878-2041

TO: B.U.R.

DATE: July 31, 2020

PROJECT: Hartford STP 0113(59) &  
Hartford STP EH09(15)

Engineers:

Bid:

CD:

WE PROPOSE TO FURNISH AND INSTALL THE WORK DESCRIBED BELOW:

ITEM #	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
<b><u>CHANGE ORDER</u></b>				
621.205	Steel Beam Guardrail w/8' Posts	300 LF	\$20.50	\$6,150.00

Dig Safe by Owner/G.C.

Traffic Control by G.C., if unable to provide TC, LHS will contract with flagging company for 2 flaggers at \$38.00/HR each plus \$100.00/day for a sign package.

This proposal becomes void if not accepted within 30 days

BY: \_\_\_\_\_

Lafayette Highway Specialties

TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

BY: 

Brent Tewksbury, President



# Appendix B

Vermont Agency of Transportation  
 5 Year Averaged Price List - ENGLISH  
 January 2015 - January 2020  
 2011 Specifications

Item Number	Item Description	Units	Average Price	Contract Occur.
617.12	RELOCATE MAILBOX, MULTIPLE SUPPORT	EACH	\$208.03	18
618.10	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SY	\$86.36	51
618.11	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	SY	\$109.37	15
618.15	BITUMINOUS CONCRETE SIDEWALK	TON	\$381.12	10
618.30	DETECTABLE WARNING SURFACE	SF	\$47.11	55
619.10	BOUNDARY MARKERS	EACH	\$275.00	1
619.14	BOLLARDS	EACH	\$673.88	10
619.15	WOOD MARKER POSTS	EACH	\$108.67	2
619.16	STEEL MARKER POSTS	EACH	\$43.94	5
619.17	YIELDING MARKER POSTS	EACH	\$38.51	88
619.20	REMOVING AND RESETTING PROPERTY MARKERS	EACH	\$288.89	5
620.11	CHAIN-LINK FENCE, 4 FEET	LF	\$31.54	6
620.12	CHAIN-LINK FENCE, 6 FEET	LF	\$33.65	6
620.15	GATE FOR CHAIN-LINK FENCE, 4 FEET	LF	\$130.00	1
620.16	GATE FOR CHAIN-LINK FENCE, 6 FEET	LF	\$118.25	3
620.20	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 4 FEET	EACH	\$124.78	2
620.21	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6 FEET	EACH	\$284.93	4
620.25	WOVEN WIRE FENCE WITH STEEL POSTS	LF	\$8.02	8
620.26	WOVEN WIRE FENCE WITH WOOD POSTS	LF	\$11.99	2
620.40	STEEL BRACE FOR WOVEN WIRE FENCE	EACH	\$120.93	4
620.50	REMOVING AND RESETTING FENCE	LF	\$11.18	21
620.55	REMOVAL OF EXISTING FENCE	LF	\$5.13	24
620.75	SNOW BARRIER	LF	\$56.36	5
621.15	PLANK RAIL	LF	\$81.00	1
621.18	STEEL BACKED TIMBER GUARDRAIL	LF	\$129.19	2
621.20	STEEL BEAM GUARDRAIL, GALVANIZED	LF	\$18.01	115
<b>621.205</b>	<b>STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS</b>	<b>LF</b>	<b>\$19.12</b>	<b>40</b>
621.206	STEEL BEAM GUARDRAIL, GALVANIZED/NESTED	LF	\$25.63	21
621.207	STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POSTS	LF	\$26.81	9
621.21	HD STEEL BEAM GUARDRAIL, GALVANIZED	LF	\$23.75	30
621.215	HD STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	LF	\$23.76	8
621.216	HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED	LF	\$25.96	4
621.217	HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POSTS	LF	\$28.68	6
621.218	STEEL BEAM GUARDRAIL DELINEATOR	EACH	\$7.66	19
621.219	STEEL BEAM GUARDRAIL OFFSET BLOCK	EACH	\$17.51	3
621.30	BOX BEAM GUARDRAIL	LF	\$41.58	23
621.50	MANUFACTURED TERMINAL SECTION, FLARED	EACH	\$1,948.01	32